24) IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT VARADARAJSWAMY LAYOUT 2ND STAGE IN WARD NO. 11 (KUVEMPUNAGARA), VIDYARANYAPURA SUB DIVISION

BRUHAT BANGALORE MAHANAGARA PALIKE

PREPARATION OF DPR FOR PACKAGE NO. 04

(PACKAGE CONSISTS OF 28 WORKS IN WARD NO 10 AND WARD NO 11)

NAME OF WORK : IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT VARADARAJSWAMY LAYOUT 2ND STAGE IN WARD NO. 11 (KUVEMPUNAGARA), VIDYARANYAPURA SUB DIVISION.

Sl.No.	Description of work	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
1	KSRB 2-1.1: Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, roads drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up lift 1.5, excavated surface leveled and neatly dressed disposed earth to be leveled after breaking of clods and neatly dressed as per specifications.Specification. No. KBS 2.1(a)/2.3.1(P.No.5-I.No.2.1)								
	Desilting drain								
	BEL 2ND BLOCK								
	2nd Block Road	Cum	2	151.00	0.60	0.40	72.48		
	KUVEMPUNAGARA 1st STAGE								
	opposite to 8th cross	Cum	2	40.00	0.40	0.40	12.80		
	BEL LAYOUT								
	5th Block 4th Cross Road	Cum	2	166	0.60	0.40	79.68		
	Basic rate							157.00	
	Area weightage 6%							9.42	
	Total						**164.96**	**166.42**	**27452.64**
2	Removing B.S.slab of Drain and stacking.(P.No.25-I.No.5.32)								
	Closed Drain								
	Cover Slab								
	Open Drain (Sides & Bottom)	Width=Perimeter of Drain in U Shape							
	BEL 2ND BLOCK								
	2nd Block Road	Sqm	2	151.00	1.80		543.60		
	KUVEMPUNAGARA 1st STAGE								
	opposite to 8th cross	Sqm	2	40.00	1.60		128.00		
	BEL LAYOUT								
	5th Block 4th Cross Road	Sqm	2	166	1.80		597.60		
	Sub Total						**1269.20**		
	Consider 5% Qnty for Removing						**63.46**		
	Basic rate							62.00	
	Area weightage 6%							3.72	
	Total						**63.46**	**65.72**	**4170.59**
3	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.31.2)								
	Open Drain (Sides & Bottom)								
	Drain slab								
	BEL 2ND BLOCK								
	2nd Block Road	Sqm	2	151.00	1.80		543.60		
	KUVEMPUNAGARA 1st STAGE								
	opposite to 8th cross	Sqm	2	40.00	1.60		128.00		
	BEL LAYOUT								
	5th Block 4th Cross Road	Sqm	2	166	1.80		597.60		
	Sub Total						**1269.20**		

	Consider 5% Qnty for Refixing						**63.46**		
	Basic rate							779.00	
	Area weightage 6%							46.74	
	Total						**63.46**	**825.74**	**52401.46**
4	KSRB 300-1 : Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.(P.No.142,I.No.19.1)								
	Road cutting portions								
	BEL 2ND BLOCK								
	2nd Block Road	Cum	2	132.00	0.85	0.23	51.61		
	Basic rate							82.00	
	Area weightage 6%							4.92	
	Total						**51.61**	**86.92**	**4486.12**
5	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms.(Refer Table. Page No.139)								
	Considered same Qty vide I.No.1+I.No.4+ I.No.15	Cum					249.27		
	Average Weight of Earth (1.28 Ton/cum, Basic rate Rs.2.5Tonne/Km.) For 15 Kms = (2.5x 1.28 x 15)/-		48.00						
	KSRRB M100-1 Add loading & unloading (P.No.130,I.No.17.1)		68.00						
	Total rate per Cum		116.00						
	Basic rate							116.00	
	Area weightage 6%							6.96	
	Total						**249.27**	**122.96**	**30650.49**
6	KSRRB M400-17.Providing,laying, spreading and compacting crushed stone aggregates of granite/trap/ basalt to wet mix macadam specification including pre mixing the Material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density. complete as per specifications.MORTH specification No.406(Page No.158,I.No.20.18)								
	Road cutting portions								
	BEL 2ND BLOCK								
	2nd Block Road	Cum	2	132.00	0.85	0.23	51.61		
	Basic rate							1668.00	
	Area weightage 6%							100.08	
	Total						**51.61**	**1768.08**	**91254.14**
7	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.161,I.No.21.1)								
	Road cutting portions								
	BEL 2ND BLOCK								
	2nd Block Road	Sqm	2	132.00	0.85		224.40		
	Basic rate							13.00	
	Area weightage 6%							0.78	
	Total						**224.40**	**13.78**	**3092.23**

8	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6)								
	Considered same Above Qty	Sqm					224.40		
	Basic rate							26.00	
	Area weightage 6%							1.56	
	Total						**224.40**	**27.56**	**6184.46**
9	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.163 of I.No.21.17.6)								
	BEL 2ND BLOCK								
	2nd Block Road	Cum	2	132.00	0.85	0.05	11.22		
	Sub Total						**11.22**		
	Consider 5% qty for Profile correction and Dipression filling						**0.56**		
	Basic rate							6717.00	
	Area weightage 6%							403.02	
	Total						**11.78**	**7120.02**	**83880.96**
10	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.161,I.No.21.2).								
	For Road surface								
	BEL 2ND BLOCK								
	2nd Block Road	Sqm	1	151.00	6.50		981.50		
	BEL LAYOUT								
	5th Block 4th Cross Road	Sqm	1	166.00	4.50		747.00		
	Basic rate							3.00	
	Area weightage 6%							0.18	
	Total						**1728.50**	**3.18**	**5496.63**
11	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7)								
	For Road surface								
	BEL 2ND BLOCK								
	2nd Block Road	Sqm	1	151.00	6.50		981.50		
	BEL LAYOUT								
	5th Block 4th Cross Road	Sqm	1	166.00	4.50		747.00		
	Basic rate							12.00	
	Area weightage 6%							0.72	
	Total						**1728.50**	**12.72**	**21986.52**
12	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6)								
	BEL 2ND BLOCK								
	2nd Block Road	Cum	1	151.00	6.50	0.04	39.26		
	BEL LAYOUT								

	5th Block 4th Cross Road	Cum	1	166.00	4.50	0.04	29.88		
	Profile correction & Pot Hole Filling	**No.*(1/2)*Length*(20%*Width)*Depth**							
	BEL 2ND BLOCK								
	2nd Block Road	Cum	1	151.00	6.50	0.04	3.93		
	BEL LAYOUT								
	5th Block 4th Cross Road	Cum	1	166.00	4.50	0.04	2.99		
	Basic rate							7659.00	
	Area weightage 6%							459.54	
	Total						**76.05**	**8118.54**	**617447.44**
13	Providing Plastic to Bituminous concrete @ 8%								
	8% OF BC	Kg		0.08	76.05	117.00	**711.87**		
	Basic rate							27.00	
	Area weightage 6%							1.62	
	Total						**711.87**	**28.62**	**20373.59**
14	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (P.No.185-I.No.24.15)								
	BEL 2ND BLOCK								
	2nd Block Road	Sqm	2	151.00	0.10		30.20		
	BEL LAYOUT								
	5th Block 4th Cross Road	Sqm	2	166.00	0.10		33.20		
	Basic rate							512.00	
	Area weightage 6%							30.72	
	Total						**63.40**	**542.72**	**34408.45**
15	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202(P.No.138- I.No.18.47)								
	KUVEMPUNAGARA 1st STAGE								
	opposite to 8th cross	Cum	1	40.00	5.45	0.15	32.70		
	Basic rate							781.00	
	Area weightage 6%							46.86	
	Total						**32.70**	**827.86**	**27071.02**
16	KSRRB M600-1. Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications.MORTH Specification No. 601, Item No. 22.1, Pg No. 176								
	KUVEMPUNAGARA 1st STAGE								
	opposite to 8th cross	Cum	1	40.00	5.45	0.15	32.70		
	Basic rate							3761.00	
	Area weightage 6%							225.66	
	Total						**32.70**	**3986.66**	**130363.78**

17	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) Pg No.177 Item No.22.6.1									
	KUVEMPUNAGARA 1st STAGE									
	opposite to 8th cross	Cum	1	40.00	5.45	0.15	32.70		
	Sub Total						**32.70**		
	Consider 5% qty for camber correction						**1.64**		
	Basic rate							5866.00	
	Area weightage 6%							351.96	
	Total						**34.34**	**6217.96**	**213493.66**
18	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Conrete Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms and 2Ltr of Primer per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (P.No.192- I.No.24.57)									
	KUVEMPUNAGARA 1st STAGE									
	opposite to 8th cross	Sqm	2	40.00	0.10		8.00		
	Basic rate							647.00	
	Area weightage 6%							38.82	
	Total						**8.00**	**685.82**	**5486.56**
19	KSRRB 200-9. Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of thorney jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications. MORTH / Chapter 2. Pg No. 136, Item No. 18.12									
	Site Area									
	Playground at BEL Layout, 6th Block, 3rd main road (Left)									
		Sqm	1	16.00	21.40		342.40		
	Playground at BEL Layout, 6th Block, 2nd Cross, HMT Layout									
	Rectangular Area	Sqm	1	30.00	36.70		1101.00		
	Triangular Area	Sqm	1	3.67			3.67		
			Triangular Area = 1/2*36.7*0.2 = 3.67Sqm						
	Playground near Kodigehalli Main Road, Rajiv Gandhi Nagar									
	Triangular Area	Sqm	1	102.61			102.61		
			Triangular Area = 1/2*11.66*17.6=102.61 Sqm						
	Triangular Area	Sqm	1	38.28			38.28		
			Triangular Area = 1/2*4.35*17.6= 38.28Sqm						
	Triangular Area	Sqm	1	295.26			295.26		
			Triangular Area = 1/2*22.8*25.9= 295.26Sqm						
	Triangular Area	Sqm	1	203.32			203.32		
			Triangular Area = 1/2*15.7*25.9= 203.32Sqm						
	Triangular Area	Sqm	1	84.98			84.98		

			Triangular Area = 1/2*22.66*7.5= 84.98.Sqm						
	Triangular Area	Sqm	1	28.58			28.58		
			Triangular Area = 1/2*7.62*7.5= 25.85Sqm						
	Rectangular Area	Sqm	1	22.50	17.60		396.00		
	Deduction for concrete surface	Sqm	1	12.00	9.50		-114.00		
	Playground at Canara Layout, Rajiv Gandhi Nagar								
	Rectangular Area	Sqm	1	25.30	9.00		227.70		
	Triangular Area	Sqm	1	140.60			140.60		
			Triangular Area = 1/2*9.62*29.23=140.60Sqm						
	Triangular Area	Sqm	1	226.53			226.53		
			Triangular Area = 1/2*29.23*15.5=226.53Sqm						
	Triangular Area	Sqm	1	34.35			34.35		
			Triangular Area = 1/2*27.93*2.46= 34.35Sqm						
	Irregular Area	Sqm	1	8.93			8.93		
	Basic rate							9.00	
	Area weightage 8%							0.72	
	Total						**3120.20**	**9.72**	**30328.30**
20	KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3								
	Playground at BEL Layout, 6th Block, 3rd main road (Left)								
		Sqm	1	16.00	21.40		342.40		
	Playground at BEL Layout, 6th Block, 2nd Cross, HMT Layout								
	Rectangular Area	Sqm	1	30.00	36.70		1101.00		
	Triangular Area	Sqm	1	3.67			3.67		
			Triangular Area = 1/2*36.7*0.2 = 3.67Sqm						
	Playground near Kodigehalli Main Road, Rajiv Gandhi Nagar								
	Triangular Area	Sqm	1	102.61			102.61		
			Triangular Area = 1/2*11.66*17.6=102.61 Sqm						
	Triangular Area	Sqm	1	38.28			38.28		
			Triangular Area = 1/2*4.35*17.6= 38.28Sqm						
	Triangular Area	Sqm	1	295.26			295.26		
			Triangular Area = 1/2*22.8*25.9= 295.26Sqm						
	Triangular Area	Sqm	1	203.32			203.32		
			Triangular Area = 1/2*15.7*25.9= 203.32Sqm						
	Triangular Area	Sqm	1	84.98			84.98		
			Triangular Area = 1/2*22.66*7.5= 84.98.Sqm						
	Triangular Area	Sqm	1	28.58			28.58		
			Triangular Area = 1/2*7.62*7.5= 25.85Sqm						
	Rectangular Area	Sqm	1	22.50	17.60		396.00		
	Deduction for concrete surface	Sqm	1	12.00	9.50		-114.00		
	Playground at Canara Layout, Rajiv Gandhi Nagar								
	Rectangular Area	Sqm	1	25.30	9.00		227.70		

	Triangular Area	Sqm	1	140.60			140.60		
			Triangular Area = 1/2*9.62*29.23=140.60Sqm						
	Triangular Area	Sqm	1	226.53			226.53		
			Triangular Area = 1/2*29.23*15.5=226.53Sqm						
	Triangular Area	Sqm	1	34.35			34.35		
			Triangular Area = 1/2*27.93*2.46= 34.35Sqm						
	Irregular Area	Sqm	1	8.93			8.93		
	Basic rate							5.00	
	Area weightage 8%							0.4	
	Total						**3120.20**	**5.4**	**16849.06**
21	Pg No.147 Item No.19.60 KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller)MORTH Specification No. 305.								
	Playground at BEL Layout, 6th Block, 3rd main road (Left)								
		Cum	1	16.00	21.40	0.20	68.48		
	Playground at BEL Layout, 6th Block, 2nd Cross, HMT Layout								
	Rectangular Area	Cum	1	30.00	36.70	0.20	220.20		
	Triangular Area	Cum	1	3.67		0.20	0.73		
			Triangular Area = 1/2*36.7*0.2 = 3.67Sqm						
	Playground near Kodigehalli Main Road, Rajiv Gandhi Nagar								
	Triangular Area	Cum	1	102.61		0.20	20.52		
			Triangular Area = 1/2*11.66*17.6=102.61 Sqm						
	Triangular Area	Cum	1	38.28		0.20	7.66		
			Triangular Area = 1/2*4.35*17.6= 38.28Sqm						
	Triangular Area	Cum	1	295.26		0.20	59.05		
			Triangular Area = 1/2*22.8*25.9= 295.26Sqm						
	Triangular Area	Cum	1	203.32		0.20	40.66		
			Triangular Area = 1/2*15.7*25.9= 203.32Sqm						
	Triangular Area	Cum	1	84.98		0.20	17.00		
			Triangular Area = 1/2*22.66*7.5= 84.98.Sqm						
	Triangular Area	Cum	1	28.58		0.20	5.72		
			Triangular Area = 1/2*7.62*7.5= 25.85Sqm						
	Rectangular Area	Cum	1	22.50	17.60	0.20	79.20		
	Deduction for concrete surface	Cum	1	12.00	9.50	0.20	-22.80		
	Playground at Canara Layout, Rajiv Gandhi Nagar								
	Rectangular Area	Cum	1	25.30	9.00	0.20	45.54		
	Triangular Area	Cum	1	140.60		0.20	28.12		
			Triangular Area = 1/2*9.62*29.23=140.60Sqm						
	Triangular Area	Cum	1	226.53		0.20	45.31		
			Triangular Area = 1/2*29.23*15.5=226.53Sqm						
	Triangular Area	Cum	1	34.35		0.20	6.87		
			Triangular Area = 1/2*27.93*2.46= 34.35Sqm						
	Irregular Area	Cum	1	8.93		0.20	1.79		

	Basic rate							302.00	
	Area weightage 8%							24.16	
	Total						**624.04**	**326.2**	**203536.61**
22	KSRB 2-2.2 : **Earthwork excavation for foundation of buildings,** water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the exavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. Specification No. KBS 2.1(b) / 2.3.5 Pg No 5,Item No 2.3								
	Flood light poles	Cum	4	0.75	0.75	1.15	2.59		
	Playground at BEL Layout, 6th Block, 3rd main road (Right)								
	Badminton Poles	Cum	4	0.30	0.30	0.45	0.16		
	Playground near Kodigehalli Main Road, Rajiv Gandhi Nagar								
	For barricading poles	Cum	14	1.50	1.50	1.15	36.23		
			(17/2+1)*2=14						
	Badminton Poles	Cum	4	0.30	0.30	0.45	0.16		
	Basic rate							189.00	
	Area weightage 8%							15.12	
	Total						**39.14**	**204.1**	**7988.54**
23	Pg No.12 Item No 4.3 KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 (M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2								
	Flood light poles	Cum	4	0.75	0.75	0.15	0.34		
	Playground at BEL Layout, 6th Block, 3rd main road (Right)								
	Badminton Poles	Cum	4	0.30	0.30	0.15	0.05		
	Playground near Kodigehalli Main Road, Rajiv Gandhi Nagar								
	For barricading poles	Cum	14	1.50	1.50	0.15	4.73		
	Badminton Poles	Cum	4	0.30	0.30	0.15	0.05		
	Basic rate							4867	
	Area weightage 8%							389.36	
	Total						**5.17**	**5256.4**	**27178.01**
24	PG no.12 Item No.4.5 KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	Flood light poles	Cum	4	0.75	0.75	1.00	2.25		
	Playground at BEL Layout, 6th Block, 3rd main road (Right)								
	Badminton Poles	Cum	4	0.30	0.30	0.30	0.11		
	Playground near Kodigehalli Main Road, Rajiv Gandhi Nagar								
	For barricading poles	Cum	14	1.50	1.50	1.00	31.50		
	Badminton Poles	Cum	4	0.30	0.30	0.30	0.11		
	Basic rate							5542.00	
	Area weightage 8%							443.36	
	Total						**33.97**	**5985.36**	**203298.74**

25	Pg.No-40,Item No-7.29 Fabrication supplying and erecting M.S. tubular trusses of all spans with prefabricated steel applications using quality material and are durable, reliable and corrosion and abrasion resistant. Welding shall confirm to latest structural welding code. Quality shall be on various parameters like shape, size, design gauge and polish. The entire trusses is anchored in RCC column by using 4 nos of M.S. anchor bolts at each support with 10mm thick base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S. pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, letc., complete as per specification									
	Playground near Kodigehalli Main Road, Rajiv Gandhi Nagar	kg		14*11*25.2=3880.80kg			3880.80			
	Basic rate							110.00		
	Area weightage 8%							8.80		
	Total						**3880.80**	**118.8**		**461039.04**
26	Mild Steel pipe 100mm dia 2.5 thick. Pg No. VIII, I No. 241									
	Badminton poles									
	Playground near Kodigehalli Main Road, Rajiv Gandhi Nagar	m	4			1.55	6.20			
	Playground at BEL Layout, 6th Block, 3rd main road (Right)	m	4			1.55	6.20			
	Basic rate							265.00		
	Area weightage 8%							21.20		
	Total						**12.40**	**286.20**		**3548.88**
27	Providing and Fixing Barricading net For Badminton court (data rates to be approved)									
	Playground near Kodigehalli Main Road, Rajiv Gandhi Nagar	Sqm	2	17.00		10.00	340.00			
	Data Rates to be approved = Rs. 300/Sqm									
	Total						**340.00**	**300.00**		**102000.00**
28	Providing and fixing Badminton net (data rates to be approved)									
	Playground near Kodigehalli Main Road, Rajiv Gandhi Nagar									
	Playground at BEL Layout, 6th Block, 3rd main road (Right)									
	Net	Each	2				2.00			
	Total						**2.00**	**10000.00**		**20000.00**
29	KSRRB M800-6 Painting Letters KSRRB M800-6. Painting two coats on New Concrete Surface:-Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces complete as per specifications. MORTH Specification No. 803, Page No. 184, Item No. 24.7									
	Playground near Kodigehalli Main Road, Rajiv Gandhi Nagar									
	Kerb painting									
	length of 110.14m	Sqm	255	0.45		0.6	68.85			
	length of 130.8m	Sqm	291	0.45		0.6	78.57			
	Basic rate							66.00		
	Area weightage 8%							5.28		
	Total						**147.42**	**71.28**		**10508.10**
30	Pg.No-121,Item No-15.73 KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications.									
	Playground at BEL Layout, 6th Block, 3rd main road (Right)									
	Badminton Poles	Sqm	4	0.314		1.60	2.01			

	Playground near Kodigehalli Main Road, Rajiv Gandhi Nagar								
	Badminton Poles	Sqm	4	0.314		1.60	2.01		
	Barricading net poles	Sqm	14	0.471		10.00	65.94		
	Basic rate							29.00	
	Area weightage 8%							2.32	
	Total						**69.96**	**31.32**	**2191.15**
31	Pg.No-121,Item No-15.74 KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.								
	Playground at BEL Layout, 6th Block, 3rd main road (Left)								
	Chain link fencing	Sqm	1	74.80		1.80	134.64		
	Playground at BEL Layout, 6th Block, 3rd main road (Right)								
	Chain link fencing	Sqm	1	89.20		1.80	160.56		
	Badminton Poles	Sqm	4	0.314		1.60	2.01		
	Playground at BEL Layout, 6th Block, 2nd Cross, HMT Layout								
	Chain link fencing	Sqm	1	133.60		1.80	240.48		
	Playground near Kodigehalli Main Road, Rajiv Gandhi Nagar								
	Chain link fencing	Sqm	1	130.80		1.80	235.44		
	Badminton Poles	Sqm	4	0.314		1.60	2.01		
	Barricading net poles	Sqm	14	0.471		10.00	65.94		
	Playground at Canara Layout, Rajiv Gandhi Nagar								
	Chain link fencing	Sqm	1	108.11		1.80	194.60		
	Basic rate							82.00	
	Area weightage 8%							6.56	
	Total						**1035.68**	**88.56**	**91719.64**
32	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge. Pg No 133,Item No17.4								
	EARTH	Cum			From I. No. 18		39.14		
	Loading and unloading item no.17.1 KSRRB M 100-1	Cum						68.00	
	Basic rate for haulage of materials as per item No. 17.4 KSRRB : M	t.km	For surface roads exluding loading & unloading				Basic rate	2.50	
	Average Weight of	For15Kms =15x1.28x2.5						48.00	
	Basic rate							116.00	
	Area weightage 8%							9.28	
	Total						**39.14**	**125.28**	**4903.02**
33	Fabricating, supplying and erecting swaged tubular pole of height ...Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch, The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7. Erection of heavy duty pole on Footpath / median								
	9Mt (5Mt Hb,165.1mm dia 4.85mm thick x2M Hm, 139.7mm dia 4.50mm thick x 2M								

	Playground near Kodigehalli Main Road, Rajiv Gandhi Nagar	No	4				4.00		
	Total						**4.00**	**15000.00**	**60000.00**
34	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.								
a)	2 core 10 sqmm(P No 55; I No 7.4.2) From pole to meter		Mtrs	50			**50.00**	**87.6**	**4380.00**
b)	4 core 10 sqmm(P No 55; I No 7.4.2) for FLOOD lighitng		Mtrs	100			**100.00**	**118.8**	**11880.00**
35	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.**In existing trench/duct.**								
	6 sqmm to 16 sqmm (P.No. 61		Mtrs	150			**150.00**	**10.80**	**1620.00**
36	Digging of trench of 0.6m deep * 0.50mtr wide refiling the trench to the required ground level & consolidating etc., complete. (As per Civil SR KSRB I-2, P.7) (750MTRS Street lighting and 50mtrs for training room to near electrical pole)								
	In soil (hard) (P.No. 61&62, I.No.		Mtrs	100			**100.00**	**106.00**	**10600.00**
37	Providing and filling sand in excavated trench to cover already laid UG cable to a depth of 150mm all-round the cable. (P.No. 62, I.No. 7.10)								
			Mtrs	100			**100.00**	**103.00**	**10300.00**
38	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.								
	200mm*200mm**98mm. (P.No. 60 I.No. 6.41.1)		NO	4			**4.00**	**2178.00**	**8712.00**
39	LED Flood Light. Supplying of LED Floodlight with .....W System Power consumption pressure die cast aluminum housing with powder coating with IP 65 protection. 1, 200-275V voltage with electronic Driver, PF>0.9, should meet ANSI 2G Vibration test, Compliance to UL/CE with Class I. System rating shall be 50K hrs. @ Lumen maintenance of 70%, system efficacy > 80lm/w. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer.								
	LED Floodlight 150W (P.No. 28		NO	8			**8.00**	**23577.00**	**188616.00**
40	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.(P.No. 108 I.No. 17.5)								
			Each	8			**8.00**	**176.00**	**1408.00**
41	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.								
a)	4sqmm (P.No. 64 I.No. 7.21.3)		No	2			**2.00**	**6.25**	**12.50**
b)	6sqmm (P.No. 64 I.No. 7.21.4)		No	4			**4.00**	**6.25**	**25.00**
c)	16sqmm (P.No. 64 I.No. 7.21.5)		No	4			**4.00**	**7.65**	**30.60**
d)	16sqmm (P.No. 64 I.No. 7.21.6)		No	8			**8.00**	**11.31**	**90.48**
42	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.								
a)	2.5 sqmm (P.No. 6, I.No.2.5.3) for internal FLOOD lighting wiring		Mtr	80			**80.00**	**29.20**	**2336.00**

b)	4 sqmm (P.No. 6, I.No.2.5.4) for main feeder upto DB	Mtr	50			**50.00**	**42.10**	**2105.00**
c)	6 sqmm (P.No. 6, I.No.2.5.5) for main feeder upto DB+100mtrs for earthing	Mtr	200			**200.00**	**63.80**	**12760.00**
43	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.							
a)	5-32 Amps SP. Group'A' (P.No. 47, I.No. 6.16.1)	No	6			**6.00**	**418.00**	**2508.00**
b)	5-32 Amps DP. Group'A' (P.No. 47, I.No. 6.16.3)	No	2			**2.00**	**849.00**	**1698.00**
44	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.II - Double Door							
	12WaySP&N. Group'A' (P.No. 47, I.No. 6.17.6)	No	2			**2.00**	**1622.00**	**3244.00**
45	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker [ELMCB] 240/450V up to 300mA sensitivity on existing wood/panel board.							
	16-25 Amps 2 pole(P.No. 47, I.No. 6.18.1)	No	2			**2.00**	**2412.00**	**4824.00**
46	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws.							
	10"x8"x1.5"(P.No. 44, I.No. 6.6.2)	No	2			**2.00**	**92.00**	**184.00**
47	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.							
	16Amps(P.No. 44, I.No. 6.7.1)	No	2			**2.00**	**120.00**	**240.00**
48	Supplying, fixing and wiring electronic 5 to 20Amps single phase Class-1 Accuracy with Temper Proof Energy Meter.(P.No. 48, I.No. 6.28)							
		No	2			**2.00**	**1188.00**	**2376.00**
49	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.							
	40x40x6mm(P.No. 49, I.No.	Mtr	8			**8.00**	**263.00**	**2104.00**
50	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.							
	40x40x6mm(P.No. 49, I.No.	Sqcms	15000			**15000.00**	**0.37**	**5550.00**
51	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia(P.No.55, I.No. 7.1)							
		No	2			**2.00**	**2727.00**	**5454.00**
52	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. GI strip							

	25x3mm(P.No.55, I.No. 7.3.1)		Mtr	10			**10.00**	**77.00**	**770.00**
53	Bescom Deposit		LS						**25000.00**
								Sub Total	**2933617.40**
	Preperation of DPR And Project management Consultancy Charges(2% of estimated cost)								60000
	Miscellenious and rounding								6383
	TOTAL AMOUNT								**3000000**
RUPEES THIRTY LAKHS ONLY									

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2016-2017, KPWD ELE SR 2014-15 and approved rates

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

25) IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT SAIGARDEN AND SURROUNDING AREAS IN WARD NO. 11 (KUVEMPUNAGARA), VIDYARANYAPURA SUB DIVISION

BRUHAT BANGALORE MAHANAGARA PALIKE

PREPARATION OF DPR FOR PACKAGE NO. 04

(PACKAGE CONSISTS OF 28 WORKS IN WARD NO 10 AND WARD NO 11)

NAME OF WORK : IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT SAIGARDEN AND SURROUNDING AREAS IN WARD NO. 11 (KUVEMPUNAGARA), VIDYARANYAPURA SUB DIVISION.

Sl.No.	Description of work	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
1	KSRB 2-1.1: Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, roads drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up lift 1.5, excavated surface leveled and neatly dressed disposed earth to be leveled after breaking of clods and neatly dressed as per specifications.Specification. No. KBS 2.1(a)/2.3.1(P.No.5-I.No.2.1)								
	Desilting drain								
	SAI GARDEN LAYOUT								
	Main road	Cum	2	181.50	0.60	0.40	87.12		
	2nd cross	Cum	2	53.90	0.60	0.40	25.87		
	3rd cross	Cum	2	52.80	0.60	0.40	25.34		
	Basic rate							157.00	
	Area weightage 6%							9.42	
	Total						**138.34**	**166.42**	**23021.88**
2	Removing B.S.slab of Drain and stacking.(P.No.25-I.No.5.32)								
	Open Drain(Sides & Bottom)								
	SAI GARDEN LAYOUT								
	Main road	Sqm	2	181.50	1.80		653.40		
	2nd cross	Sqm	2	53.90	1.80		194.04		
	3rd cross	Sqm	2	52.80	1.80		190.08		
	Sub Total						**1037.52**		
	Consider 5% Qnty for Removing						**51.88**		
	Basic rate							62.00	
	Area weightage 6%							3.72	
	Total						**51.88**	**65.72**	**3409.29**
3	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.31.2)								
	Open Drain(Sides & Bottom)								
	SAI GARDEN LAYOUT								
	Main road	Sqm	2	181.50	1.80		653.40		
	2nd cross	Sqm	2	53.90	1.80		194.04		
	3rd cross	Sqm	2	52.80	1.80		190.08		
	Sub Total						**1037.52**		
	Consider 5% Qnty for Removing						**51.88**		
	Basic rate							779.00	
	Area weightage 6%							46.74	
	Total						**51.88**	**825.74**	**42836.09**
4	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14)								
	For New Road								
	SAI GARDEN LAYOUT								
	4th cross	Cum	1	50.60	5.10	0.15	38.71		

	SINGAPURA PARADISE								
	From Abbigere main road to dead end (santhe road)	Cum	1	235.00	7.00	0.15	246.75		
	Basic rate							46.00	
	Area weightage 6%							2.76	
	Total						**285.46**	**48.76**	**13918.98**
5	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms.(Refer Table. Page No.139)								
	Considered same Qty vide .No.1+ I.No.4	Cum					423.80		
	Average Weight of Earth (1.28 Ton/cum, Basic rate Rs2.5Tonne/Km.) For 15 Kms = (2.5x 1.28 x 15)/-		48.00						
	KSRRB M100-1 Add loading & unloading (P.No.130,I.No.17.1)		68.00						
	Total rate per Cum		116.00						
	Basic rate							116.00	
	Area weightage 6%							6.96	
	Total						**423.80**	**122.96**	**52109.83**
6	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305								
	For New Road								
	SAI GARDEN LAYOUT								
	4th cross	Cum	1	50.60	5.10	0.25	64.52		
	SINGAPURA PARADISE								
	From Abbigere main road to dead end (santhe road)	Cum	1	235.00	7.00	0.25	411.25		
	Basic rate							302.00	
	Area weightage 6%							18.12	
	Total						**475.77**	**320.12**	**152301.89**
7	Pg. No. 149, Item No. 19.64,KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3								
	For New Road								
	SAI GARDEN LAYOUT								
	4th cross	Sqm	1	50.60	5.10		258.06		
	SINGAPURA PARADISE								
	From Abbigere main road to dead end (santhe road)	Sqm	1	235.00	7.00		1645.00		
	Basic rate							5.00	
	Area weightage 6%							0.30	
	Total						**1903.06**	**5.30**	**10086.22**

8	KSRRB M400-17.Providing,laying, spreading and compacting crushed stone aggregates of granite/trap/ basalt to wet mix macadam specification including pre mixing the Material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density. complete as per specifications.MORTH specification No.406(Page No.158,I.No.20.18)								
	SAI GARDEN LAYOUT								
	4th cross	Cum	1	50.60	5.10	0.25	64.52		
	From Abbigere main road to dead end (santhe road)	Cum	1	235.00	7.00	0.25	411.25		
	Basic rate							1668.00	
	Area weightage 6%							100.08	
	Total						**475.77**	**1768.08**	**841190.58**
9	KSRRB 500-1.Cleaning the existing WBM Road surface including removing of binding materials and other foreign matter with wire brushes and small picks sweeping with brooms or soft brushes and finally dusting with old gunny bags and bar or compressed air to receive bituminous treatment including cost of all materials, labhour, HOM of machineries complet as per specifications.(P.No.161,I.No.21.1)								
	SAI GARDEN LAYOUT								
	4th cross	Sqm	1	50.60	5.10		258.06		
	SINGAPURA PARADISE								
	From Abbigere main road to dead end (santhe road)	Sqm	1	235.00	7.00		1645.00		
	Basic rate							13.00	
	Area weightage 6%							0.78	
	Total						**1903.06**	**13.78**	**26224.17**
10	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6)								
	Considered same Above Qty	Sqm					1903.06		
	Basic rate							26.00	
	Area weightage 6%							1.56	
	Total						**1903.06**	**27.56**	**52448.33**
11	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.163 of I.No.21.17.6)								
	SAI GARDEN LAYOUT								
	4th cross	Cum	1	50.60	5.10	0.05	12.90		
	SINGAPURA PARADISE								
	From Abbigere main road to dead end (santhe road)	Cum	1	235.00	7.00	0.05	82.25		
	Sub Total						**95.15**		
	Consider 5% qty for Profile correction and Dipression filling						**4.76**		
	Basic rate							6717.00	
	Area weightage 6%							403.02	
	Total						**99.91**	**7120.02**	**711365.83**

12	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.161,I.No.21.2).								
	SAI GARDEN LAYOUT								
	For Road surface								
	Main road	Sqm	1	181.50	7.30		1324.95		
	2nd cross	Sqm	1	53.90	4.60		247.94		
	3rd cross	Sqm	1	52.80	4.60		242.88		
	4th cross	Sqm	1	50.60	5.10		258.06		
	SINGAPURA PARADISE								
	From Abbigere main road to dead end (santhe road)	Sqm	1	235.00	7.00		1645.00		
	Basic rate							3.00	
	Area weightage 6%							0.18	
	Total						**3718.83**	**3.18**	**11825.88**
13	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7)								
	SAI GARDEN LAYOUT								
	For Road surface								
	Main road	Sqm	1	181.50	7.30		1324.95		
	2nd cross	Sqm	1	53.90	4.60		247.94		
	3rd cross	Sqm	1	52.80	4.60		242.88		
	4th cross	Sqm	1	50.60	5.10		258.06		
	SINGAPURA PARADISE								
	From Abbigere main road to dead end (santhe road)	Sqm	1	235.00	7.00		1645.00		
	Basic rate							12.00	
	Area weightage 6%							0.72	
	Total						**3718.83**	**12.72**	**47303.52**
14	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6)								
	SAI GARDEN LAYOUT								
	Main road	Cum	1	181.50	7.30	0.04	53.00		
	2nd cross	Cum	1	53.90	4.60	0.04	9.92		
	3rd cross	Cum	1	52.80	4.60	0.04	9.72		
	4th cross	Cum	1	50.60	5.10	0.04	10.32		
	SINGAPURA PARADISE								
	From Abbigere main road to dead end (santhe road)	Cum	1	235.00	7.00	0.04	65.80		
	Profile correction & Pot Hole Filling	**No.*(1/2)*Length*(20%*Width)*Depth**							
	SAI GARDEN LAYOUT								
	Main road	Cum	1	181.50	7.30	0.04	5.30		
	2nd cross	Cum	1	53.90	4.60	0.04	0.99		
	3rd cross	Cum	1	52.80	4.60	0.04	0.97		

	4th cross	Cum	1	50.60	5.10	0.04	1.03		
	SINGAPURA PARADISE								
	From Abbigere main road to dead end (santhe road)	Cum	1	235.00	7.00	0.04	6.58		
	Basic rate							7659.00	
	Area weightage 6%							459.54	
	Total						**163.63**	**8118.54**	**1328424.68**
15	Providing Plastic to Bituminous concrete @ 8%								
	8% OF BC	Kg		0.08	163.63	117.00	**1531.56**		
	Basic rate							27.00	
	Area weightage 6%							1.62	
	Total						**1531.56**	**28.62**	**43833.33**
16	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (P.No.185- I.No.24.15)								
	SAI GARDEN LAYOUT								
	Main road	Sqm	2	181.50	0.10		36.30		
	2nd cross	Sqm	2	53.90	0.10		10.78		
	3rd cross	Sqm	2	52.80	0.10		10.56		
	4th cross	Sqm	2	50.60	0.10		10.12		
	SINGAPURA PARADISE								
	From Abbigere main road to dead end (santhe road)	Sqm	2	235.00	0.10		47.00		
	Basic rate							512.00	
	Area weightage 6%							30.72	
	Total						**114.76**	**542.72**	**62282.55**
								Sub Total	**3422583.05**
	Preperation of DPR And Project management Consultancy Charges(2% of estimated cost)								70000
	Miscellenious and rounding								7417
	TOTAL AMOUNT								**3500000**
	RUPEES THIRTY FIVE LAKHS ONLY								

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2016-2017

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

26) IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT KALLATHUR LAYOUT AND SURROUNDING AREAS IN WARD NO. 11 (KUVEMPUNAGARA), VIDYARANYAPURA SUB DIVISION

BRUHAT BANGALORE MAHANAGARA PALIKE

PREPARATION OF DPR FOR PACKAGE NO. 04

(PACKAGE CONSISTS OF 28 WORKS IN WARD NO 10 AND WARD NO 11)

NAME OF WORK : IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT KALLATHUR LAYOUT AND SURROUNDING AREAS IN WARD NO. 11 (KUVEMPUNAGARA), VIDYARANYAPURA SUB DIVISION.

Sl.No.	Description of work	Measurement					Qty	Rate	Amount
		Unit	No	L	B	D			
1	Removing B.S.slab of Drain and stacking.(P.No.25-I.No.5.32)								
	Kalathur Layout (Drains Work)								
	Cover Slab								
	1ST Cross Road (RHS)	Sqm	1	73.70	0.78		57.49		
	5th Cross Road (RHS)	Sqm	1	132.00	0.75		99.00		
	Basic rate							62.00	
	Area weightage 6%							3.72	
	Total						**156.49**	**65.72**	**10284.26**
2	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305(P.No.148,I.No.19.60)								
	Kalathur Layout (Drains Work)								
	1st Main (LHS)	Cum	1	42.90	1.60	0.40	27.46		
	1st Main (LHS)	Cum	1	112.20	0.67	0.05	3.76		
	1st Main (RHS)	Cum	1	112.20	0.77	0.12	10.37		
	1st Cross Road (RHS)	Cum	1	73.70	0.78	0.15	8.62		
	2nd Cross Road (LHS)	Cum	1	230.50	1.10	0.60	152.13		
	2nd Cross Road (RHS)	Cum	1	230.50	0.77	0.34	60.34		
	3rd Cross Road (LHS)	Cum	1	94.60	0.73	0.13	8.98		
	3rd Cross Road (RHS)	Cum	1	94.60	0.67	0.08	5.07		
	4th Cross Road (LHS)	Cum	1	105.60	0.65	0.03	2.06		
	4th Cross Road (RHS)	Cum	1	105.60	0.60	0.11	6.97		
	5th Cross Road (LHS)	Cum	1	132.00	0.75	0.13	12.87		
	5th Cross Road (RHS)	Cum	1	132.00	0.75	0.20	19.80		
	2nd Main Road (LHS)	Cum	1	116.60	0.70	0.15	12.24		
	Basic rate							302.00	
	Area weightage 6%							18.12	
	Total						**330.67**	**320.12**	**105853.98**
3	Pg. No. 149, Item No. 19.64,KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3								
	Kalathur Layout (Drains Work)								
	1st Main (LHS)	Sqm	1	42.90	1.60		68.64		
	1st Main (LHS)	Sqm	1	112.20	0.67		75.17		

	1st Main (RHS)	Sqm	1	112.20	0.77		86.39		
	1st Cross Road (RHS)	Sqm	1	73.70	0.78		57.49		
	2nd Cross Road (LHS)	Sqm	1	230.50	1.10		253.55		
	2nd Cross Road (RHS)	Sqm	1	230.50	0.77		177.49		
	3rd Cross Road (LHS)	Sqm	1	94.60	0.73		69.06		
	3rd Cross Road (RHS)	Sqm	1	94.60	0.67		63.38		
	4th Cross Road (LHS)	Sqm	1	105.60	0.65		68.64		
	4th Cross Road (RHS)	Sqm	1	105.60	0.60		63.36		
	5th Cross Road (LHS)	Sqm	1	132.00	0.75		99.00		
	5th Cross Road (RHS)	Sqm	1	132.00	0.75		99.00		
	2nd Main Road (LHS)	Sqm	1	116.60	0.70		81.62		
	Basic rate							5.00	
	Area weightage 6%							0.30	
	Total						**1262.79**	**5.30**	**6692.78**
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1, 4.2 (P.No.12,I.No.4.3)								
	Kalathur Layout (Drains Work)								
	1st Main (LHS)	Cum	1	42.90	1.60	0.15	10.30		
	1st Main (LHS)	Cum	1	112.20	0.67	0.15	11.28		
	1st Main (RHS)	Cum	1	112.20	0.77	0.15	12.96		
	1ST Cross Road (LHS)	Cum	1	73.70	0.70	0.15	7.74		
	1st Cross Road (RHS)	Cum	1	73.70	0.78	0.15	8.62		
	2nd Cross Road (LHS)	Cum	1	230.50	1.10	0.15	38.03		
	2nd Cross Road (RHS)	Cum	1	230.50	0.77	0.15	26.62		
	3rd Cross Road (LHS)	Cum	1	94.60	0.73	0.15	10.36		
	3rd Cross Road (RHS)	Cum	1	94.60	0.67	0.15	9.51		
	4th Cross Road (LHS)	Cum	1	105.60	0.65	0.15	10.30		
	4th Cross Road (RHS)	Cum	1	105.60	0.60	0.15	9.50		
	5th Cross Road (LHS)	Cum	1	132.00	0.75	0.15	14.85		
	5th Cross Road (RHS)	Cum	1	132.00	0.75	0.15	14.85		
	2nd Main Road (LHS)	Cum	1	116.60	0.70	0.15	12.24		
	Basic rate							4867.00	
	Area weightage 6%							292.02	
	Total						**197.16**	**5159.02**	**1017136.13**

5	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) Pg No.177 Item No.22.6.1								
	Kalathur Layout (Drains Work)								
	1st Main (LHS)	Cum	1	42.90	1.60	0.10	6.86		
	1st Main (LHS)	Cum	1	112.20	0.67	0.10	7.52		
	1st Main (RHS)	Cum	1	112.20	0.77	0.10	8.64		
	1ST Cross Road (LHS)	Cum	1	73.70	0.70	0.10	5.16		
	1st Cross Road (RHS)	Cum	1	73.70	0.78	0.10	5.75		
	2nd Cross Road (LHS)	Cum	1	230.50	1.10	0.10	25.36		
	2nd Cross Road (RHS)	Cum	1	230.50	0.77	0.10	17.75		
	3rd Cross Road (LHS)	Cum	1	94.60	0.73	0.10	6.91		
	3rd Cross Road (RHS)	Cum	1	94.60	0.67	0.10	6.34		
	4th Cross Road (LHS)	Cum	1	105.60	0.65	0.10	6.86		
	4th Cross Road (RHS)	Cum	1	105.60	0.60	0.10	6.34		
	5th Cross Road (LHS)	Cum	1	132.00	0.75	0.10	9.90		
	5th Cross Road (RHS)	Cum	1	132.00	0.75	0.10	9.90		
	2nd Main Road (LHS)	Cum	1	116.60	0.70	0.10	8.16		
	Basic rate							5866.00	
	Area weightage 6%							351.96	
	Total						**131.44**	**6217.96**	**817275.60**
								Sub Total	**1957242.76**
	Preparation of DPR And Project management Consultancy Charges(2% of estimated cost)								40000
	Miscellenious and rounding								2757
	TOTAL AMOUNT								**2000000**
	RUPEES TWENTY LAKHS ONLY								

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2016-2017

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27) IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT SINGAPURA GARDEN MAIN ROAD AND SURROUNDING AREAS IN WARD NO. 11 (KUVEMPUNAGARA), VIDYARANYAPURA SUB DIVISION

BRUHAT BANGALORE MAHANAGARA PALIKE

PREPARATION OF DPR FOR PACKAGE NO. 04

(PACKAGE CONSISTS OF 28 WORKS IN WARD NO 10 AND WARD NO 11)

NAME OF WORK: IMPROVEMENTS AND ASPHALTING TO ROADS AND DRAINS AT SINGAPURA GARDEN MAIN ROAD AND SURROUNDING AREAS IN WARD NO. 11 (KUVEMPUNAGARA), VIDYARANYAPURA SUB DIVISION

Sl.No.	Description of work	Measurement					Qty	Rate	Amount
		Unit	No	L	B	D			
1	KSRB 2-1.1: Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, roads drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up lift 1.5, excavated surface leveled and neatly dressed disposed earth to be leveled after breaking of clods and neatly dressed as per specifications.Specification. No. KBS 2.1(a)/2.3.1(P.No.5-I.No.2.1)								
	Desilting drain								
	HVV LAYOUT								
	3rd Main road	Cum	2	150.30	0.60	0.40	72.14		
	HMT LAYOUT								
	4th Block 1st Main Road	Cum	2	239.30	0.70	0.40	134.01		
	5th Block 5th Main Road	Cum	2	191.40	0.60	0.40	91.87		
	CHAMUNDESHWARI LAYOUT								
	unnamed Road (between 2nd & 1st Cross)	Cum	2	128.00	0.75	0.40	76.80		
	1st Cross 2nd phase	Cum	2	119.40	0.80	0.40	76.42		
	MUNINARAYANAPPA LAYOUT								
	6th Cross Road ward no. 9	Cum	1	59.18	0.80	0.40	18.94		
	NTI LAYOUT								
	8th A Main Road	Cum	2	404	0.60	0.40	193.92		
	Basic rate							157.00	
	Area weightage 6%							9.42	
	Total						**470.18**	**166.42**	**78246.96**
2	Removing B.S.slab of Drain and stacking.(P.No.25-I.No.5.32)								
	Closed Drain								
	Cover Slab								
	HVV LAYOUT								
	3rd Main road	Sqm	2	150.30	0.60		180.36		
	CHAMUNDESHWARI LAYOUT								
	unnamed Road (between 2nd & 1st Cross)	Sqm	2	128.00	0.75		192.00		
	1st Cross 2nd phase	Sqm	2	119.40	0.80		191.04		
	MUNINARAYANAPPA LAYOUT								
	6th Cross Road ward no. 9	Sqm	1	59.18	0.80		47.34		
	Open Drain(Sides & Bottom)								
	HMT LAYOUT								
	4th Block 1st Main Road	Sqm	2	239.30	1.80		861.48		
	5th Block 5th Main Road	Sqm	2	191.40	1.80		689.04		
	NTI LAYOUT								

	8th A Main Road	Sqm	2	404	1.80		1454.40		
	Sub Total						**3615.66**		
	Consider 5% Qnty for Removing	Sqm					**180.78**		
	Basic rate							62.00	
	Area weightage 6%							3.72	
	Total						**180.78**	**65.72**	**11881.07**
3	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.25-I.No.5.33)								
	Closed Drain								
	Cover Slab								
	HVV LAYOUT								
	3rd Main road	Sqm	2	150.30	0.60		180.36		
	CHAMUNDESHWARI LAYOUT								
	unnamed Road (between 2nd & 1st Cross)	Sqm	2	128.00	0.75		192.00		
	1st Cross 2nd phase	Sqm	2	119.40	0.80		191.04		
	MUNINARAYANAPPA LAYOUT								
	6th Cross Road ward no. 9	Sqm	1	59.18	0.80		47.34		
	Sub Total						**610.74**		
	Consider 30% Qnty for Removing & Refixing						**183.22**		
	Basic rate							76.00	
	Area weightage 6%							4.56	
	Total						**183.22**	**80.56**	**14760.46**
4	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.31.1)								
	Closed Drain								
	Cover Slab								
	HVV LAYOUT								
	3rd Main road	Sqm	2	150.30	0.60		180.36		
	CHAMUNDESHWARI LAYOUT								
	unnamed Road (between 2nd & 1st Cross)	Sqm	2	128.00	0.75		192.00		
	1st Cross 2nd phase	Sqm	2	119.40	0.80		191.04		
	MUNINARAYANAPPA LAYOUT								
	6th Cross Road ward no. 9	Sqm	1	59.18	0.80		47.34		
					Sub Total		**610.74**		
	Consider 5% Qnty for Refixing						**30.54**		
	Basic rate							628.00	
	Area weightage 6%							37.68	
	Total						**30.54**	**665.68**	**20328.00**
5	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.25,I.No.5.31.2)								
	Open Drain (Sides & Bottom)								
	Drain slab								
	HMT LAYOUT								
	4th Block 1st Main Road	Sqm	2	239.30	1.80		861.48		
	5th Block 5th Main Road	Sqm	2	191.40	1.80		689.04		

	NTI LAYOUT								
	8th A Main Road	Sqm	2	404	1.80		1454.40		
	Sub Total						**3004.92**		
	Consider 5% Qnty for Refixing						**150.25**		
	Basic rate							779.00	
	Area weightage 6%							46.74	
	Total						**150.25**	**825.74**	**124064.13**
6	Lead for disposal of earth shall be payable at Carriage rates (Lead & Lift) by mechanical means including loading and unloading up to 15kms.(Refer Table. Page No.139)								
	Considered same Qty vide I.No.1	Cum					470.18		
	Average Weight of Earth (1.28 Ton/cum, Basic rate Rs.2.00 Tonne/Km.) For 15 Kms = (2.50 x 1.28 x 15)/-		48.00						
	KSRRB M100-1 Add loading &		68.00						
	Total rate per Cum		116.00						
	Basic rate							116.00	
	Area weightage 6%							6.96	
	Total						**470.18**	**122.96**	**57813.04**
7	KSRRB 500-2.Cleaning the existing black topped surface with brooms,soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials,labhour, HOM of machineries complete as per specifications.(P.No.161,I.No.21.2).								
	HVV LAYOUT								
	For Road surface								
	3rd Main road	Sqm	1	150.30	8.00		1202.40		
	HMT LAYOUT								
	4th Block 1st Main Road	Sqm	1	239.30	5.90		1411.87		
	5th Block 5th Main Road	Sqm	1	191.40	5.10		976.14		
	CHAMUNDESHWARI LAYOUT								
	unnamed Road (between 2nd & 1st Cross)	Sqm	1	128.00	5.00		640.00		
	1st Cross 2nd phase	Sqm	1	119.40	5.65		674.61		
	MUNINARAYANAPPA LAYOUT								
	6th Cross Road ward no. 9	Sqm	1	59.18	3.10		183.46		
	1st stage, sri krishna temple Road	Sqm	1	141.90	4.10		581.79		
	NTI LAYOUT								
	8th A Main Road	Sqm	1	404.00	5.00		2020.00		
	Basic rate							3.00	
	Area weightage 6%							0.18	
	Total						**7690.27**	**3.18**	**24455.05**
8	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7)								
	HVV LAYOUT								
	For Road surface								
	3rd Main road	Sqm	1	150.30	8.00		1202.40		
	HMT LAYOUT								

	4th Block 1st Main Road	Sqm	1	239.30	5.90		1411.87		
	5th Block 5th Main Road	Sqm	1	191.40	5.10		976.14		
	CHAMUNDESHWARI LAYOUT								
	unnamed Road (between 2nd & 1st Cross)	Sqm	1	128.00	5.00		640.00		
	1st Cross 2nd phase	Sqm	1	119.40	5.65		674.61		
	MUNINARAYANAPPA LAYOUT								
	6th Cross Road ward no. 9	Sqm	1	59.18	3.10		183.46		
	1st stage, sri krishna temple Road	Sqm	1	141.90	4.10		581.79		
	NTI LAYOUT								
	8th A Main Road	Sqm	1	404.00	5.00		2020.00		
	Basic rate							12.00	
	Area weightage 6%							0.72	
	Total						**7690.27**	**12.72**	**97820.21**
9	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6)								
	HVV LAYOUT								
	3rd Main road	Cum	1	150.30	8.00	0.04	48.10		
	HMT LAYOUT								
	4th Block 1st Main Road	Cum	1	239.30	5.90	0.04	56.47		
	5th Block 5th Main Road	Cum	1	191.40	5.10	0.04	39.05		
	CHAMUNDESHWARI LAYOUT								
	unnamed Road (between 2nd & 1st Cross)	Cum	1	128.00	5.00	0.04	25.60		
	1st Cross 2nd phase	Cum	1	119.40	5.65	0.04	26.98		
	MUNINARAYANAPPA LAYOUT								
	6th Cross Road ward no. 9	Cum	1	59.18	3.10	0.04	7.34		
	1st stage, sri krishna temple Road	Cum	1	141.90	4.10	0.04	23.27		
	NTI LAYOUT								
	8th A Main Road	Cum	1	404.00	5.00	0.04	80.80		
	Profile correction & Pot Hole Filling	**No.*(1/2)*Length*(20%*Width)*Depth**							
	HVV LAYOUT								
	3rd Main road	Cum	1	150.30	8.00	0.04	4.81		
	HMT LAYOUT								
	4th Block 1st Main Road	Cum	1	239.30	5.90	0.04	5.65		
	5th Block 5th Main Road	Cum	1	191.40	5.10	0.04	3.90		
	unnamed Road (between 2nd & 1st Cross)	Cum	1	128.00	5.00	0.04	2.56		
	1st Cross 2nd phase	Cum	1	119.40	5.65	0.04	2.70		

	MUNINARAYANA PPA LAYOUT								
	6th Cross Road ward no. 9	Cum	1	59.18	3.10	0.04	0.73		
	1st stage, sri krishna temple Road	Cum	1	141.90	4.10	0.04	2.33		
	NTI LAYOUT								
	8th A Main Road	Cum	1	404.00	5.00	0.04	8.08		
	Basic rate							7659.00	
	Area weightage 6%							459.54	
	Total						**338.37**	**8118.54**	**2747084.93**
10	Providing Plastic to Bituminous concrete @ 8%								
	8% OF BC	Kg		0.08	338.37	117.00	**3167.16**		
	Basic rate							27.00	
	Area weightage 6%							1.62	
	Total						**3167.16**	**28.62**	**90644.12**
11	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. (P.No.185- I.No.24.15)								
	HVV LAYOUT								
	3rd Main road	Sqm	2	150.30	0.10		30.06		
	HMT LAYOUT								
	4th Block 1st Main Road	Sqm	2	239.30	0.10		47.86		
	5th Block 5th Main Road	Sqm	2	191.40	0.10		38.28		
	CHAMUNDESHWARI LAYOUT								
	unnamed Road (between 2nd & 1st Cross)	Sqm	2	128.00	0.10		25.60		
	1st Cross 2nd phase	Sqm	2	119.40	0.10		23.88		
	MUNINARAYANA PPA LAYOUT								
	6th Cross Road ward no. 9	Sqm	2	59.18	0.10		11.84		
	1st stage, sri krishna temple Road	Sqm	2	141.90	0.10		28.38		
	NTI LAYOUT								
	8th A Main Road	Cum	2	404.00	0.10		80.80		
	Basic rate							512.00	
	Area weightage 6%							30.72	
	Total						**286.70**	**542.72**	**155595.65**
								Sub Total	**3422693.62**
	Preparation of DPR And Project management Consultancy Charges(2% of estimated cost)								70000
								Miscellenious and rounding	7306
								TOTAL AMOUNT	**3500000**
								RUPEES THIRTY FIVE LAKHS ONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2016-2017

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97